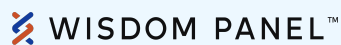


Keokee  
Registration: N/A



Sample ID: EYWVMPN  
Test Date: 9/1/2022  
Essential

# DNA Test Report

## Owner Info

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**First Name**

Travis

**Last Name**

Hobbs

## Pet Info

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**Registered Name**

Keokee

**Date of Birth**

6/1/2019

**Nickname (Call Name)**

Keokee

**Sample ID**

EYWVMPN

**Sex**

Female

**Registration**

N/A

**Microchip ID**

N/A

**Tattoo ID**

N/A

# DNA Test Report

## Ancestry Results

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### Herding

22% German Shepherd Dog  
14% Collie  
5% Great Pyrenees  
4% Australian Shepherd  
2% Miniature American Shepherd

### Asian and Oceanian

13% Chow Chow  
2% Siberian Husky  
2% Chinese Shar-Pei

### Guard

8% American Pit Bull Terrier  
5% Boxer  
4% Rottweiler

### Sporting

6% Labrador Retriever  
2% Golden Retriever  
2% Cocker Spaniel

### Hound

4% Beagle  
2% Redbone Coonhound

### Terrier

3% Chihuahua

# DNA Test Report

## Health Conditions Tested

Genetic Condition	Gene	Risk Variant	Copies	Result
Canine Leukocyte Adhesion Deficiency (CLAD), type III	FERMT3	Insertion	0	Clear
Canine Scott Syndrome	ANO6	G>A	0	Clear
Complement 3 Deficiency	C3	Deletion	0	Clear
Factor VII Deficiency	F7	G>A	0	Clear
Factor XI Deficiency	FXI	Insertion	0	Clear
Glanzmann Thrombasthenia Type I	ITGA2B	C>T	0	Clear
Glanzmann Thrombasthenia Type I (Discovered in Great Pyrenees)	ITGA2B	C>G	0	Clear
Hemophilia A (Discovered in Old English Sheepdog)	FVIII	C>T	0	Clear
Hemophilia A (Discovered in the Boxer)	FVIII	C>G	0	Clear
Hemophilia A (Discovered in the German Shepherd Dog - Variant 1)	FVIII	G>A	0	Clear
Hemophilia A (Discovered in the German Shepherd Dog - Variant 2)	FVIII	G>A	0	Clear
Hemophilia A (Discovered in the Havanese)	FVIII	Insertion	0	Clear
Hemophilia B	FIX	G>A	0	Clear
Hemophilia B (Discovered in the Airedale Terrier)	FIX	Insertion	0	Clear
Hemophilia B (Discovered in the Lhasa Apso)	FIX	Deletion	0	Clear
May-Hegglin Anomaly	MYH9	G>A	0	Clear
MDR1 Medication Sensitivity	MDR1/ABCB1	Deletion	0	Clear
P2RY12-associated Bleeding Disorder	P2RY12	Deletion	0	Clear
Prekallikrein Deficiency	KLKB1	T>A	0	Clear
Severe Combined Immunodeficiency	PRKDC	G>T	0	Clear
Severe Combined Immunodeficiency (Discovered in Frisian Water Dogs)	RAG1	G>T	0	Clear
Trapped Neutrophil Syndrome	VPS13B	Deletion	0	Clear

# DNA Test Report

## Health Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
von Willebrand's Disease, type 1	VWF	G>A	0	Clear
von Willebrand's Disease, type 2	VWF	T>G	0	Clear
von Willebrand's Disease, type 3 (Discovered in the Kooiker Hound)	VWF	G>A	0	Clear
von Willebrand's Disease, type 3 (Discovered in the Scottish Terrier)	VWF	Deletion	0	Clear
von Willebrand's Disease, type 3 (Discovered in the Shetland Sheepdog)	VWF	Deletion	0	Clear
X-Linked Severe Combined Immunodeficiency (Discovered in the Basset Hound)	IL2RG	Deletion	0	Clear
X-Linked Severe Combined Immunodeficiency (Discovered in the Cardigan Welsh Corgi)	IL2RG	Insertion	0	Clear

# DNA Test Report

## Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Fawn	ASIP	a <sup>y</sup>	0	No effect
Recessive Black	ASIP	a	2	Black possible
Tan Points	ASIP	a <sup>t</sup>	2	Tan points possible
Dominant Black	CBD103	K <sup>B</sup>	1	Black or brindle possible
Mask	MC1R	E <sup>m</sup>	1	Dark Muzzle possible
Recessive Red (Variant 1)	MC1R	e <sup>1</sup>	1	No effect
Widow's Peak (Discovered in the Afghan Hound and Saluki)	MC1R	E <sup>G</sup>	0	No effect
Chocolate (Variant 1)	TYRP1	b <sup>c</sup>	0	No effect
Chocolate (Variant 2)	TYRP1	b <sup>s</sup>	0	No effect

## Coat Patterns

Genetic Trait	Gene	Variant	Copies	Result
Piebald	MITF	s <sup>p</sup>	0	No effect
Merle	PMEL	M	0	No effect
Harlequin	PSMB7	H	0	No effect
Saddle Tan	RALY	-	1	Saddle possible

## Coat Length and Curl

Genetic Trait	Gene	Variant	Copies	Result
Long Hair (Variant 1)	FGF5	lh <sup>1</sup>	1	Short coat likely, long coat possible
Curly Coat	KRT71	C	0	No effect

# DNA Test Report

## Hairlessness

Genetic Trait	Gene	Variant	Copies	Result
Hairlessness (Discovered in the Chinese Crested Dog) Linkage test	FOXI3	Hr <sup>cc</sup>	0	No effect
Hairlessness (Discovered in the American Hairless Terrier)	SGK3	hr <sup>ah</sup>	0	No effect
Hairlessness (Discovered in the Scottish Deerhound)	SKG3	hr <sup>sd</sup>	0	No effect

## Shedding

Genetic Trait	Gene	Variant	Copies	Result
Reduced Shedding	MC5R	sd	1	Occasional shedder

## More Coat Traits

Genetic Trait	Gene	Variant	Copies	Result
Hair Ridge	FGF3, FGF4, FGF19, ORAOV1	R	0	No effect
Furnishings	RSPO2	F	0	No effect
Albino	SLC45A2	c <sup>al</sup>	0	No effect

## Head Shape

Genetic Trait	Gene	Variant	Copies	Result
Short Snout (Variant 2)	BMP3	-	0	No effect
Short Snout (Variant 1)	SMOC2	-	0	No effect

## Eye Color

Genetic Trait	Gene	Variant	Copies	Result
Blue Eyes	ALX4	-	0	No effect

# DNA Test Report

## Ears

Genetic Trait	Gene	Variant	Copies	Result
Floppy Ears	MSRB3	-	0	Pricked ears more likely

## Extra Toes

Genetic Trait	Gene	Variant	Copies	Result
Hind Dewclaws (Discovered in Asian breeds)	LMBR1	DC-1	0	No effect
Hind Dewclaws (Discovered in Western breeds)	LMBR1	DC-2	0	No effect

## More Body Features

Genetic Trait	Gene	Variant	Copies	Result
Back Muscle and Bulk	ACSL4	-	0	No effect
High Altitude Adaptation	EPAS1	-	0	No effect
Short Legs	FGF4	-	0	Medium to long legs
Short Tail	T-box	T	0	Full tail length likely